

REVIEW and PRACTICE - SALES AND RETAIL UNIT TEST

NON-CALCULATOR PORTION

1. How much change do I get if I pay for a \$6.51 item with \$20?

13.49

2. How do you find the percent change in something (%increase, %decrease, or %savings)?

$$\frac{\text{Change}}{\text{original}} = \% \text{change}$$

3. A \$70 item is on sale. Find the new price (before tax) if the sale is each of the following percents:

A. 20% off = \$14

B. 50% off $\frac{70}{2}$

35

10% = 7
70 - 14 = 56

C. 25% off 70 - 17.50

52.50

D. 70% off = 30% remains
21 3(\$7)

4. My bill was \$12.20 and I gave the cashier a \$20. His register said to give \$7.80 in change, but then I found 20 cents and gave it to the cashier. He doesn't know how much to change to give me now. How much do I tell the cashier to give me?

20.20
-12.20

8.00

5. I go out to eat and my table's bill is \$45.75. How much do I tip if I want each of the following percents?

A. 10% tip

4.58

4.575
4.575

B. 20% tip

9.15

10% 4.58
5% 2.29

C. 15% tip

6.86

6. I eat out and the meal total is \$24.50. The waiter did an excellent job and I want to tip 20%. What will be my total cost of the meal and tip?

2.45
2.45
4.90

29.40

24.50
4.90
29.40

7. The shoes I want are \$90, but there is a 40% off sale. How much are the shoes now (before tax)?

10% = 9
40% = 4 * 10% = 4 * 9 = 36
\$ 54

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CALCULATOR PORTION

8. An item is \$84.79 after a tax of 6% and a 20% off sale. Find the original cost of the item.

$$\frac{84.79}{1.06} = 79.99$$

$$\boxed{\$99.99}$$

$$\frac{79.99}{.8} = 99.99$$

9. Find 38% of \$175.

$$.38(175) = \$66.50$$

10. Find the after tax price of an item that is \$35.00 and the tax is 8.5%.

$$\$37.98$$

$$\times 1.085$$

11. I have a \$15 off coupon and a 20% off coupon, but I can't use both.

- A. If my item is \$70, which coupon should I use? Why?

$$70 - 15 = 55 \quad \text{vs.} \quad 56 = .8(70)$$

use the \$15 off

- B. For what item cost would it not matter what coupon I used?

$$\frac{15}{.2} = \frac{.2x}{.2}$$

$$x = \$75$$

$$\begin{array}{r} \text{Price} \\ P - 15 = .8P \\ -1P \\ \hline -1P - 15 = -.2P \\ -0.2 \quad -0.2 \\ \hline \end{array}$$

12. An advertisement says a tablet is \$99.99 off and the new price is \$300.00.

- A. What is the original price of the item?

$$399.99$$

- B. What percent off was the sale?

$$\frac{99.99}{399.99}$$

$$25\%$$

13. What percent do I need to save if I want to buy a \$85 chair for \$60?

$$\frac{25}{88}$$

$$29\%$$

$$\frac{85 - 60}{85}$$

14. At your hardware store, you buy magazines for \$36.00 a dozen and sell them for \$3.75 each. What is the percent markup for each magazine?

$$25\%$$

$$\frac{45 - 36}{36}$$

$$\frac{\times 12}{645}$$

15. Phone plan A charges \$0.15 each minute. Phone plan B charges a \$20 monthly fee and then \$0.05 each minute.

- A. If you plan to use 300 minutes this month, which plan should you pick? Why?

$$A = \$45$$

$$B = \underline{\$35} \text{ cheaper}$$

- B. For what number of minutes are the plans equal in price?

$$\begin{array}{r} .15x = 20 + .05x \\ -.05x \quad -.05x \\ \hline \end{array}$$

$$200 \text{ minutes}$$

$$\begin{array}{r} .1x = 20 \\ \div .1 \quad \div .1 \\ \hline \end{array}$$